

PI 564517 to 564520-continued

PI 564519 **origin:** United States. **developed:** G.J. Seiler. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** TUB-1709-3. **pedigree:** cms HA 89*3 (*Helianthus annuus*)/TUB-1709 (*H. tuberosus*) F3. **other id:** GP-185. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Plants both single and multiple headed. Plant height 134cm, flowering (50%) 66 days after planting, self-compatibility (seed set under bags) 89%, viable pollen staining 87%, 100 seed weight 4.5g, test weight 391kg/m³, and oil content 43.4%. Spring Annual. Breeding Material. Seed.

PI 564520 **origin:** United States. **developed:** G.J. Seiler. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** TUB-1789. **pedigree:** cms HA 89//P-21 Peredovik*1 (*Helianthus annuus*)/TUB-1789 (*H. tuberosus*) F3. **other id:** GP-186. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Plants single headed. Plant height 150cm. Flowering (50%) 70 days after planting, self-compatibility (seed set under bags) 57%, viable pollen staining 98%, 100 seed weight 4.8g, test weight 386kg/m³, and oil content 41.1%. Spring Annual. Breeding Material. Seed.

PI 564521 to 564522. *Vicia sativa* L. FABACEAE Common vetch

Donated by: Mosjidis, J.A., Auburn University, Dept. of Agronomy & Soils, 201 Funchess Hall, Auburn, Alabama 36849-5412, United States. Received December 10, 1992.

PI 564521 **origin:** United States. **cultivar:** L2. **pedigree:** Interspecific cross, *V. sativa* (Als. 1894)/*V. angustifolia* (PI 121275). **remarks:** Early. Flowers purple. Approx. equal to Willamette and Warrior varieties of common vetch in winter hardiness. Resistant to vetch bruchid (*Bruchus brachialis*). Resistant to three species of root knot nematode (*Meloidogyne incognita*, *M. incognita acrita*, and *M. javanica*). Winter Annual. Breeding Material. Seed.

PI 564522 **origin:** United States. **cultivar:** ALA 1894. **pedigree:** Alba/Warrior, pure line breeding was used through F6. **remarks:** Produced early herbage and is early to flower. Seedcoat soft. Approx. as winter hardy as Willamette and Warrior varieties of common vetch. Resistant to vetch bruchid (*Bruchus brachialis*). Resistant to three species of root knot nematodes (*Meloidogyne incognita*, *M. incognita acrita*, and *M. javanica*). Winter Annual. Breeding Material. Seed.